



STARCH PLANT SAVES \$48,000 ANNUALLY

SKU REDUCTION AND VERSATILITY WITH HERA® GEAR DRIVES

APPLICATION

Starch Inlet Conveyor

INDUSTRY

Food

SOLUTION TYPE

SKU reduction with versatility and ability to meet different center distances and sizes – resulting in decreased gearbox changeouts.

DESCRIPTION OF PROBLEM

A global starch manufacturing plant was experiencing incorrect gearbox selection and increased downtime due to the vast amount of worm gearbox SKU choices that were present in their inventory storeroom. The plant had 4 storeroom bays of various brands and sizes of gearboxes that were all used for different purposes.

Maintenance personnel would select a gearbox that was often-times not specified for the application. This resulted in keeping the starch inlet conveyor lines down longer in order to modify the installation of the selected gearbox and calibrate the surrounding machines to get the lines to run properly. This occurred at least once a

month and resulted in 2 hours of downtime at a cost of \$2,000 per hour.

With the versatility of Hub City™ HERA High Efficiency Right Angle gear drives, the plant was able to consolidate storeroom storage from four bays to half of one bay and increase uptime on all of their lines – saving the plant \$48,000 per year.

BENEFITS SEEN BY THE PLANT INCLUDED

- Reduce/Consolidate storeroom inventory with less SKUs – dimensionally interchangeable to up to 11 sizes of worm drives
- Save time with longer product life for reduced downtime
- Up to 40% more efficient than standard worm gearing
- \$48,000 annual savings



HERA® GEAR DRIVES

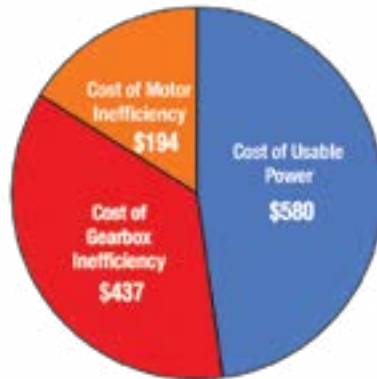


FEATURES AND BENEFITS

- At least 90% efficiency in all ratios with up to 40% reduction in energy
- Torque-dense up to double the capacity of worm drives
- Wide torque capacity and modular shaft
- Base and flange components allow for HERA gear drives to interchange with worm reducers from 1.75 to 6 in. (44.45 to 152.4 mm) center distance
- Filled with PAG460 premium synthetic lubricant for enhanced efficiency (Meets USDA H1)
- Viton* Double Lip Seals protect against leaks at higher temperatures

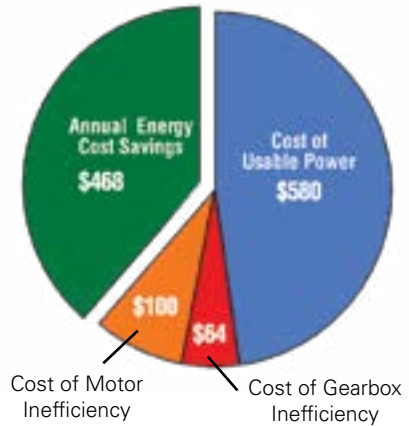
* Viton is believed to be the trademark of The Chemours Company and is not owned or controlled by Regal Beloit Corporation.

Worm System



Annual Operating Cost (total): \$1,211
Based on internal test results

HERA System



Annual Operating Cost (total): \$744
Based on internal test results



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APPLICATION CONSIDERATIONS

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